



U.S. Express Mail Label No. EL639069986US

Docket No. 042159.0119



FOLEY & LARDNER
2029 Century Park East - Suite 3500
Los Angeles, CA 90067-3021

TO: Commissioner for Patents
Box Patent Application
Washington D.C. 20231

UTILITY PATENT APPLICATION TRANSMITTAL UNDER 37 C.F.R. 1.53(b)

Transmitted herewith for filing is the patent application of:

INVENTOR(S): Victor DEMJANENKO,
Frederic J. HIRZEL,
Juan Alberto TORRES

**TITLE: USE OF TURBO-LIKE CODES FOR QAM MODULATION USING
INDEPENDENT I AND Q DECODING TECHNIQUES AND
APPLICATIONS TO xDSL SYSTEMS**

In connection with this application, the following are enclosed:

APPLICATION ELEMENTS:

- ☒ Specification (including Abstract): 63 pages
- ☒ Claims: 9
- ☒ Formal Drawings: 73 Sheets
- ☐ Power of Attorney By Assignee and Exclusion of Inventor Under Rule 37 C.F.R. § 3.71
- ☒ Declaration and Power of Attorney
 - ☒ Unsigned
 - ☐ Executed (original or copy)
 - ☐ Copy from a prior application (37 CFR 1.63(d))(relates to continuation/divisional boxes completed) - NOTE: Box below

ACCOMPANYING APPLICATION PARTS:

- ☐ Assignment with Recordation Form Cover Sheet; Check No. for \$
- ☐ Revocation and Power of Attorney
- ☐ Information Disclosure Statement(IDS) with PTO-1449.
 - ☐ Copies of IDS Citations
- ☒ Computer Program Listing Appendix (pages 1-95)
- ☒ Check No. 14520 in the amount of \$355.00 for the filing fee.
- ☒ Certificate of Mailing By Express Mail
- ☒ Return Receipt Postcard (MPEP 503)
- ☒ Small Entity Statement: Applicants claim small entity status pursuant to 37 C.F.R. § 1.27.
- ☐ Certified Copy of Priority Document(s) with Claim of Priority (if foreign priority is claimed).

CONTINUING APPLICATION, check appropriate box and supply the requisite information:

- ☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application Serial No. ☐.
- ☐ Amend the specification by inserting before the first line the following sentence: --This application is a continuation, ☐ divisional or ☐ continuation-in-part of application Serial No. ☐, filed ☐--

CORRESPONDENCE ADDRESS:

Please address all future correspondence to:

David A. Blumenthal at the Foley & Lardner address noted above.

Telephone: (310) 277-2223

Fax Number: (310) 557-8475

FEE CALCULATIONS: (Small entity fees indicated in parentheses.)

(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$710. (\$355.)
Total Claims	9 - 20 = 0	0	X \$18 (x \$9)	0.
Independent Claims	3 - 3 = 0	0	X \$80 (x \$40)	0.
Multiple Dependent Claims: 0			\$270 (\$135)	0.
Assignment Recording Fee per property			\$40	0.
Surcharge Under 37 C.F.R. 1.16(e)			\$130 (\$65)	0.
TOTAL FEE:				\$355.

METHOD OF PAYMENT:

Check No. 14520 in the amount of \$355.00 for the total fee is enclosed. **Applicants claim small entity status pursuant to 37 C.F.R. § 1.27.** Commissioner is authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-0872. A duplicate of this transmittal is attached.

Respectfully submitted,

April 30, 2001

Date



Ronald Coslick

Reg. No. 36,489

05-02-01

A

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Attorney Docket No. 042159.0119

Victor DEMJANENKO,
Frederic J. HIRZEL,
Juan Alberto TORRES

Group Art Unit: Unassigned

Examiner: Unassigned

Filed: Concurrently herewith

Serial No.: Unassigned

For: USE OF TURBO-LIKE CODES FOR QAM MODULATION USING INDEPENDENT I AND Q
DECODING TECHNIQUES AND APPLICATIONS TO xDSL SYSTEMS

CERTIFICATE OF MAILING BY U.S. EXPRESS MAIL

Commissioner for Patents
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Washington, D.C. 20231

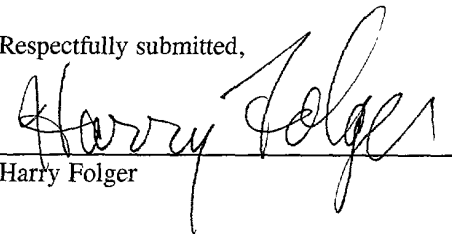
I hereby certify that the following paper(s) and/or fee(s) along with any attachments referred to or identified as being attached or enclosed are being deposited with the United States Postal Service as Express Mail (**U.S. Express Mail Label No. EL639069986US**) under 37 C.F.R. § 1.10 on the date of deposit shown below with sufficient postage and in an envelope addressed to: Commissioner for Patents, Box Patent Application, Washington D.C. 20231.

1. Utility Application Transmittal Under 37 C.F.R. 1.53(b)
2. Specification, Claims, and Abstract: 63 pages
3. Formal Drawings: 73 sheets
4. Declaration and Power of Attorney (unsigned)
5. Computer Program Listing Appendix (pages 1-95)
6. Check No. 14520 in the amount of \$355.00 for the filing fee
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Date

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Respectfully submitted,


Harry Folger